

What is claimed is:

1.A service provision system comprising a common platform as an interface function with a client and an object network for communicating through the platform and providing a service intentionally requested by the client, said object network further comprising:

5 a hierarchical structure, comprising:

10 a data model in which an attribute structure of the object network is determined as a template;

an object model that is positioned higher in rank than the data model and has a matching constraint on security;

15 a role model that is positioned higher in rank than the object model and expresses a content of a process to be performed in an environment as an aggregate of a plurality of object models; and

20 a process model that is positioned highest in rank and defines a dynamic process to be cooperatively performed by a plurality of role models as one process, and

a security matching constraint check unit ensuring security of a system by checking a security constraint attached to the template.

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2. The service provision system according to claim 1,
wherein

the security matching constraint check unit
checks access to a system that does not provide
5 sufficient data to authenticate intension of an
appropriate execution process.

3. The service provision system according to claim 1,
wherein

10 the communications of a system is implemented by
a communications role function corresponding to the role
model, and

15 said security matching constraint check unit
further comprises gate means for checking attribute
structure data of the communications medium with a
security constraint in a role model corresponding to
the communications role function.

4. The service provision system according to claim 1,
20 wherein

when a service intentionally requested by the
client is provided, said security matching constraint
check unit checks an access right to a system of a person
concerned related to the intention.

5. The service provision system according to claim 1,
wherein said object model further comprising:

a format model which expresses patterns of both
a noun object and a verb object as objects in formats;

5 a feature model, which expresses a feature of an
object, based on an attribute value of the object and
to which a constraint is attached based on an
environment;

an object network model with a graphic structure
10 having a name of the noun object and a name of the verb
object as a node and a branch, respectively; and

15 a cell in which a security matching constraint for
indicating a relationship in a system between the format
model and feature model in a template corresponding to
the format and feature models is described,

wherein

said security matching constraint check unit
ensures a security of a system by checking the matching
constraint described in the cell.

20 6. The service provision system according to claim 1,
further comprising

25 sentence structure analyzing means for improving
visibility for a client by analyzing a sentence
structure of the object and displaying a sentence

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structure obtained by the analysis on said common platform in order to sustain a security of a system.

7. The service provision system according to claim 1,
5 further comprising

10 integration processing means for improving efficiency of an entire process of a system using a security matching constraint attached to the template when a process to be cooperatively performed by the plurality of role models.

8. The service provision system according to claim 1,
further comprising

15 conflicting operation modeling means for generating based on the security matching constraint a model against a conflicting operation that has the possibility of executing a malicious service against a person concerned receiving a service from the service provision system as a result,

20 wherein

said security matching constraint check unit checks the conflicting operation using the model.

9. The service provision system according to claim 8,
25 wherein

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5 said conflicting operation-modeling means describes the matching constraint based on a relationship between a specific word and a specific operation.

10 10. The service provision system for executing a service using a waterwork pattern according to claim 1, wherein
 said matching constraint check unit judges a target pattern using a matching constraint, including
10 location information between an original pattern in which a waterwork pattern is embedded and the waterwork pattern.

15 11. The service provision system according to claim 1,
 which
 restricts communications services,
 conducts event drive as communications intention of an operating person concerned,
 authenticates a communications system,
20 confirms occurrence of a communication event based on a security matching constraint,
 requests a service as communications business, if data are matched,
 authenticates a communications attribute structure and confirms the service request based on a
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security matching constraint of a communications content structure, and

requests the communications service when data of a communications operation are matched.

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12. The service provision system according to claim 11, which

issues a data non-matching message if data are not matched when the data are checked based on both the occurrence of a communications event and the security constraint, and

issues a data non-matching message if data are not matched when the data are checked based on the security matching constraint of a communications content structure.

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13. An object network system, comprising:

a unit setting a security matching constraint in each object; and

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a unit checking the security matching constraint.

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14. A service provision system comprising a common platform as an interface function with a client and an object network for communicating through the platform and providing a service intentionally requested by the

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client, said object network further comprising:
a hierarchical structure, comprising:
a data model in which an attribute structure
of the object network is determined as a template;
5 an object model that is positioned higher
in rank than the data model and has a matching
constraint on security;
a role model that is positioned higher in
rank than the object model and expresses a content
10 of a process to be performed in an environment as
an aggregate of a plurality of object models; and
a process model that is positioned highest
in rank and defines a dynamic process to be
cooperatively performed by a plurality of role
models as one process, and
15 a security matching constraint check means for
ensuring security of a system by checking a security
constraint attached to the template.

20 15. An object network system, comprising:
means for setting a security matching constraint
in each object; and
means for checking the security matching
constraint.